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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530,661	04/06/2005	Morio Fujitani	MAT-8678US	7307
23122	7590	01/09/2008		
RATNERPRESTIA P O BOX 980 VALLEY FORGE, PA 19482-0980			EXAMINER PATEL, ASHOK	
			ART UNIT 2889	PAPER NUMBER
			MAIL DATE 01/09/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/530,661

Applicant(s)

FUJITANI, MORIO

Examiner

Ashok Patel

Art Unit

2879

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 2,3,5-9,11-14,16-20,22 and 23 is/are allowed.
- 6) ☒ Claim(s) 1,10 and 21 is/are rejected.
- 7) ☒ Claim(s) 4 and 15 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 April 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>04062005</u> | 6) <input type="checkbox"/> Other: ____ |

1. Claim 21 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Since claim 21 repeats the language of base claim 10, claim 21 does not further limit the scope of the base claim 10.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1 is rejected under 35 U.S.C. 102(a) as being anticipated by Kimura et al (WO 03/023808, submitted by applicant) or under 35 U.S.C. 102(e) as being anticipated by Kimura et al (USPqPub 2005/0179383).

Kimura et al discloses plasma display panel, PDP (at least Figures 1, 6, 9), including:

a front panel and a rear panel disposed opposing each other, the front panel including a display electrode (12, 13) composed of a scan electrode and a sustain electrode extending in a row direction, and the rear panel including an address electrode (22) extending in a column direction and intersecting the display electrode,

wherein a plurality of individually divided discharge cells (4) are formed in a part in which the display electrode and the address electrode intersect each other, and discharge cells neighboring in the column direction of the discharge cells communicate to each other by a communication portion communicating the discharge cells in non-parallel (z-shaped passage) to the column direction.

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 10 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kimura et al, as applied to claim 1.

As to claims 10 and 21, Kimura et al disclose the PDP including mixed gas of Xe and at least one selected from Ne and He filled in an inner space of the discharge cell, as claimed by applicant. Kimura et al however do not disclose the mixed gas with a partial pressure of Xe in the range from 5% to 50%, as claimed by applicant.

Such claimed pressure range is commonly known to those skilled in the art for optimizing the emission properties. Therefore, it would have been obvious to one of ordinary skill in the art to provide the Kimura et al's PDP with the mixed gas at a known suitable pressure range for optimizing the emission properties.

6. Claims 2, 3, 5-9, 11-14, 16-20, 22 and 23 are in the condition for allowance since prior art of the record does not disclose or teach applicant's claimed plasma display panel including:

(1) a front panel and a rear panel disposed opposing each other, the front panel including a display electrode composed of a scan electrode and a sustain electrode extending in a row

direction, and the rear panel comprising an address electrode extending in a column direction and intersecting the display electrode,

wherein the rear panel includes a lattice form of barrier ribs of row direction barrier ribs and column direction barrier ribs, which are equal in height, forming a plurality of individually divided discharge cells, in a part in which the display electrode and the address electrode intersect each other; and the row direction barrier ribs of the barrier ribs are provided with communication portions communicating the neighboring barrier ribs in non-parallel to the column direction, as specifically recited in claim 2; or

(b) a front panel and a rear panel disposed opposing each other, the front panel including a display electrode composed of a scan electrode and a sustain electrode extending in a row direction, and a dielectric layer covering the display electrode, and the rear panel including an address electrode extending in a column direction and intersecting the display electrode,

wherein the rear panel includes a lattice form of barrier ribs of row direction barrier ribs and column direction barrier ribs, which are equal in height, forming a plurality of

individually divided discharge cells, in a part in which the display electrode and the address electrode intersect each other; the dielectric layer has a lattice form of protrusions of row direction protrusions and column direction protrusions, which are equal in height, facing the lattice form of barrier ribs; and the row direction protrusions are provided with communication portions communicating the neighboring discharge cells in non-parallel to the column direction, as specifically recited in claim 3.

7. Claims 4 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Prior art of the record does not disclose applicant's claimed PDP of base claim 1 wherein the communication portion is provided obliquely with respect to the column direction.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Amatsuchi, Otani et al, Koyabashi, Asano et al and Amemiya et al each are cited for showing a general structure of a PDP.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashok Patel whose telephone number is 571-272-2456. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Ashok Patel/
Ashok Patel
Primary Examiner
Art Unit 2879